

Book D.

FIELD NOTES

BOOK 4077

of the

dependent and independent resurvey and survey of a portion of the sub-
divisional lines of Township 4 South, Range 2 East,

4077

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Francis E. Joy, U.S. Cadastral Engineer

4077

In the capacity of U. S. Surveyor, under Special Instructions dated Sept. 2,
1932, issued by the District Cadastral Engineer to govern surveys included in Group
No. 170, which were approved by the Commissioner of the General Land
Office, Oct. 4, 1932, and Assignment Instructions dated Jan. 16, 1933.

Survey commenced February 20, 1933

Survey completed March 7, 1933

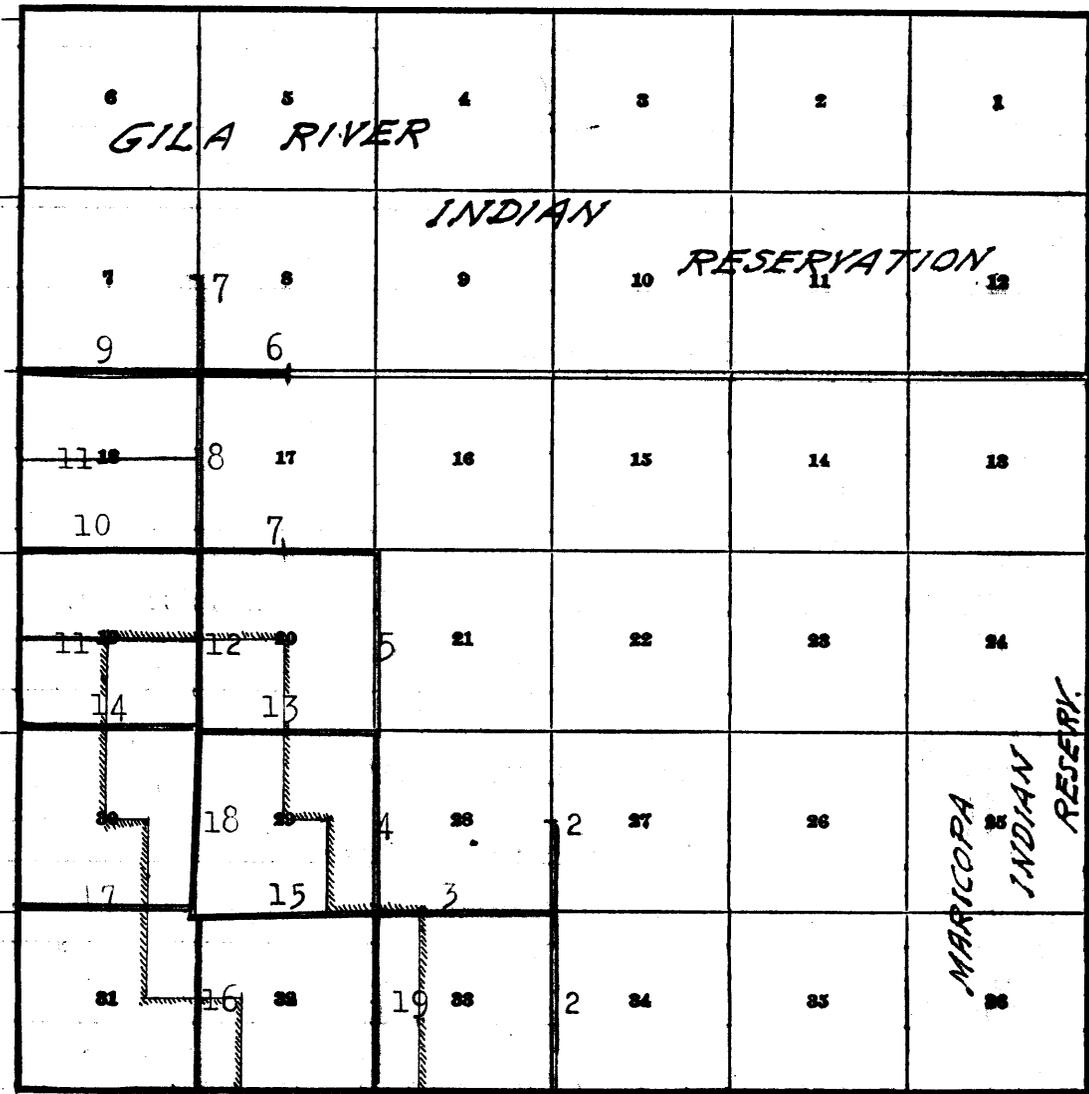
1A

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BOOK 4077

INDEX DIAGRAM.

Township 4 South, Range 2 East



This survey and resurvey of subdivisions of T. 4 S., R. 2 E., G. S. R. B. & M., Arizona was executed with a Buff light mountain transit, serial No. 16723, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of $4\frac{1}{2}$ ins. with two double opposite verniers reading to single minutes. The vertical circle has a diameter of 4 ins. with one double vernier reading to single minutes. The telescope has fixed stadia wires, ratio 1:132, with a focal constant of 1.2 links. The instrument is equipped with the improved Smith solar attachment, the radius of the latitude arc being 4 ins. and of the declination arc $3\frac{1}{2}$ ins., each with vernier reading to single minutes. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, was approved by the District Cadastral Engineer at Glendale, California on January 16, 1933. All instrumental adjustments were examined before making the field tests hereinafter recorded.

The measurements were made with a Lallie steel tape 5 chs. in length, graduated every link for the first 100 links and the balance at intervals of ten links. The tape was tested by comparison with a Lufkin standard steel tape and found correct. The measurements were made on the slope and the vertical angle of each interval ascertained by a clinometer in good adjustment. The horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographic position of the SE. cor. of T. 4 S., R. 2 E., as $33^{\circ}01'40''$ N. latitude and $112^{\circ}06'00''$ W. longitude.

Feb. 20, 1933, in camp near the cor. of secs. 28, 29, 32 and 33, T. 4 S., R. 2 E., G. and S. R. B. and M., in latitude $33^{\circ}02\frac{1}{2}'$ N., longitude $112^{\circ}10'$ W., at 5h 53m 40s p.m., l.m.t., I make an hour angle observation on Polaris W. of the meridian, making six observations, three each with the telescope in direct and reversed positions, reading the horizontal deflection angle from a large cactus about 5 miles N. in the direction N-W to Polaris.

Mean horizontal angle, Polaris to mark	--	$1^{\circ} 01' 20''$
Azimuth of Polaris	-----	$43' 06''$
True bearing of mark	-----	$N.00^{\circ}18'14''E.$

Mean observed altitude of Polaris	-----	$33^{\circ}55'45''$
Reduced latitude	-----	$33^{\circ}02'39''$
Watch time of observation	-----	6h 22m 24s.
Watch fast of l.m.t.	-----	28m 44s.

Feb. 21; every 30 minutes from 7 to 10:30 a.m. and from 1:30 to 6 p.m., I make the proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with the meridian established by Polaris observation, has a maximum error of less than $1'30''$.

I verify the meridional indications of the solar at frequent intervals throughout the survey, and make further tests of the arcs by noon observations.

Resurvey of a Portion of the Subdivisions of
T.4 S., R.2 E.

Chains	Reestablishment of surveys executed by Deputy Surveyor Ingalls in 1868.
	----- From the cor. of secs. 33 and 34, on S. bdy. of Tp. N.4°00'W., on a random line bet. secs. 33 and 34.
38.50	Find no trace of the old $\frac{1}{4}$ sec. cor. Set temp. cor.
40.00	Find no trace of old $\frac{1}{4}$ sec. cor.
77.00	Find no trace of the old cor. of secs. 27, 28, 33 and 34. Set temp. cor.
80.00	Find no trace of old cor. Continue line bet. secs. 27 and 28.
115.58	The $\frac{1}{4}$ sec. cor. of secs. 27 and 28, bears N.86°00'E., 2.31 chs. dist. The position of this $\frac{1}{4}$ sec. cor. has been perpetuated by an old fence post, from which fences run N. and E. It is well related to other old cors. of the original survey and is undoubtedly the original position of cor. At point for cor., alongside fence post, Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap marked $\frac{1}{4}$ S 28 S 27 1933 raise a mound of stone, 3 ft. base, 2 ft. high W. of cor. A well, bears N.82°30'W., 3.98 chs. dist. I return to the cor. of secs. 33 and 34 on S. bdy. of T., which is an iron post, 2 ins. diam., 8 ins. above ground marked and witnessed as described in the official record Thence N.2°51'W., on a true line bet. secs. 33 and 34. Over level desert land, through scattering timber and undergrowth.
5.00	Graded road, bears SW. and NE. 5 chs. then N.
11.75	Wash, 30 lks. wide, course NE.
32.00	Wash, 10 lks. wide, course NE.
35.66	Wash, 10 lks. wide, course E.
38.53	(Midpoint) Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd. $\frac{1}{4}$ S 33 S 34 1933 from which A scrub mesquite, 6 ins. diam., bears S.32 $\frac{1}{2}$ °E., 81 lks. dist. marked $\frac{1}{4}$ S 34 B T A scrub mesquite, 6 ins. diam., bears S.28°W., 174 lks. dist. marked $\frac{1}{4}$ S 33 B T

Resurvey of a Portion of the Subdivisions of
T.4 S., R.2 E.

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Chains	A round topped knoll 40 ft. high, bears west about 15 chs. dist.						
56.50	Sandy wash, 20 lks. wide, course NE.						
68.50	Sandy wash, 10 lks. wide, course NE. Thence along E. edge of cleared land.						
77.06	A point determined by single proportion bet. the cor. of secs. 33 and 34 on S. bdy. of Tp., and the $\frac{1}{4}$ sec. cor. of secs. 27 and 28. Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground for cor. of secs. 27, 28, 33 and 34, with brass cap marked <div style="text-align: center;"> <table border="0"> <tr><td>T4S</td><td>R2E</td></tr> <tr><td>S 28</td><td>S 27</td></tr> <tr><td>S 33</td><td>S 34</td></tr> </table> <p>1933</p> </div> <p style="text-align: right;">from which</p> <p>A mesquite, 6 ins. diam., bears S. $19\frac{3}{4}^{\circ}$W., 279 lks. dist. marked T 4 S R 2 E S 33 B T</p> <p>A mesquite, 24 ins. diam., bears N. $42\frac{1}{2}^{\circ}$W., 191 lks. dist. marked T 4 S R 2 E S 28 B T</p> <p>Land, level desert. Soil, sandy and gravelly loam, 1st. rate. Timber, mesquite. Undergrowth, greasewood and sage.</p>	T4S	R2E	S 28	S 27	S 33	S 34
T4S	R2E						
S 28	S 27						
S 33	S 34						
	Thence						
	West on a random line bet. secs. 28 and 33.						
40.00	Find no trace of the old $\frac{1}{4}$ sec. cor. Set temp. cor.						
80.00	Find no trace of the original cor. of secs. 28, 29, 32 and 33. Set temp. cor.						
	Thence						
	North, on a random line bet. secs. 28 and 29.						
40.00	Find no trace of the old $\frac{1}{4}$ sec. cor. Set temp. cor.						
79.55	Fall 18 lks. E. of the cor. of secs. 20, 21, 28 and 29. I return to the cor. of secs. 27, 28, 33 and 34.						
	Thence						
	S. $89^{\circ}41'$ W., on a true line bet. secs. 28 and 33.						
	Over level land, through scattering timber and undergrowth						
35.50	Enter clearing, bears N. and S.						
40.00	(Midpoint) Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd. <div style="text-align: center;"> <table border="0"> <tr><td>$\frac{1}{4}$</td><td>S 28</td></tr> <tr><td></td><td>—</td></tr> <tr><td></td><td>S 33</td></tr> </table> <p>1933</p> </div> <p style="text-align: right;">from which</p> <p>A mesquite, 12 ins. diam., bears N. $58\frac{1}{4}^{\circ}$W., 334 lks. dist. marked $\frac{1}{4}$ S 28 B T</p>	$\frac{1}{4}$	S 28		—		S 33
$\frac{1}{4}$	S 28						
	—						
	S 33						

Resurvey of a Portion of the Subdivision of
T.4 S., R.2 E.

Chains	A mesquite, 8 ins. diam., bears S.16°W., 168 lks. dist. marked $\frac{1}{4}$ S 33 B T										
75.00	Leave clearing, bears NE. and SW.										
80.00	At a point which is record distance in departure from the the cor. of secs. 27, 28, 33 and 34, and record distance in latitude from the cor. of secs. 20, 21, 28 and 29, Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with broken green glass bottle deposited at base of post, for cor. of secs. 28, 29, 32 and 33, with brass cap marked <div style="text-align: center;"> <table style="margin: auto;"> <tr><td>T4S</td><td>R2E</td></tr> <tr><td>S 29</td><td>S 28</td></tr> <tr><td colspan="2"><hr/></td></tr> <tr><td>S 32</td><td>S 33</td></tr> <tr><td colspan="2">1933</td></tr> </table> </div> <div style="text-align: right; margin-right: 20px;">from which</div> An ironwood, 18 ins. diam., bears S.59 $\frac{3}{4}$ °E., 177 lks. dist. marked T 4 S R 2 E S 33 B T An ironwood, 12 ins. diam., bears S.50°W., 242 lks. dist. marked T 4 S R 2 E S 32 B T An ironwood, 18 ins. diam., bears N.34 $\frac{3}{4}$ °W., 532 lks. dist., marked T 4 S R 2 E S 29 B T A house, bears N.54°38'W. Land, level desert. Soil, sandy and gravelly loam, 1st. rate. Timber, mesquite and ironwood. Undergrowth, greasewood and sage.	T4S	R2E	S 29	S 28	<hr/>		S 32	S 33	1933	
T4S	R2E										
S 29	S 28										
<hr/>											
S 32	S 33										
1933											
	Thence N.0°08'W., on a true line bet. secs. 28 and 29. Over level land, through scattering timber and undergrowth.										
8.50	Sandy wash, 10 lks. wide, course NE.										
23.00	Enter cleared land, bears E. and W.										
25.05	Road, bears E. and W. 25 chs. to cabin.										
40.00	<i>(midpoint)</i> Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap marked <div style="text-align: center;"> <table style="margin: auto;"> <tr><td>$\frac{1}{4}$</td></tr> <tr><td>S 29</td><td>S 28</td></tr> <tr><td colspan="2"><hr/></td></tr> <tr><td colspan="2">1933</td></tr> </table> </div> <div style="text-align: right; margin-right: 20px;">dig pits, 18 x 18 x</div> 12 ins. N. and S. of cor. 3 ft. dist. A house, bears S.64°15'W.	$\frac{1}{4}$	S 29	S 28	<hr/>		1933				
$\frac{1}{4}$											
S 29	S 28										
<hr/>											
1933											
45.45	Leave cleared land, bears E. and W.										
80.00	The cor. of secs. 20, 21, 28 and 29, which is an old mesquite stake, badly decayed but still showing some marks. This is undoubtedly the original cor. In place of and with the old stake alongside, Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with a granite stone 8x6x5 ins. marked cross (+) deposited at base of post, for cor. of secs. 20, 21										

Resurvey of a Portion of the Subdivision of T.
T.4 S., R.2 E.

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Chains 28 and 29, with brass cap marked

T4S R2E	
S 20	S 21
S 29	S 28
1933	

No suitable accessory.

Land, level desert.

Soil, sandy loam, 1st. rate.

Timber, mesquite, ironwood and paloverde.

Undergrowth, greasewood, sagebrush and cactus.

Thence

North, on a random line bet. secs. 20 and 21.

39.86 Fall 51 lks. E. of the $\frac{1}{4}$ sec. cor. of secs. 20 and 21.

79.81 Fall 101 lks. E. of the cor. of secs. 16, 17, 20 and 21.

I return to the cor. of secs. 20, 21, 28 and 29,

Thence . . .

N.0°43'W., on a true line bet. secs. 20 and 21.

Over level desert land, through scattering timber and undergrowth,

39.86 The $\frac{1}{4}$ sec. cor. of secs. 20 and 21, which is the badly decayed remains of an old mesquite stake. No marks are visible, but it is undoubtedly the original cor. At point for cor.Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap marked

$\frac{1}{4}$	
S 20	S 21
1933	

18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist. dig pits

46.16 Old road, bears E. and W.

51.50 Enter low washed land and dense undergrowth, bears SE. and NW.

68.50 Leave same, bears E. and W.

79.81 The cor. of secs. 16, 17, 20 and 21, which is a fragment of old mesquite stake in mound of earth with traces of pits visible. It is well related to other old corners of the original survey and is undoubtedly the true position for cor. In center of old mound,

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with brown glass quart bottle deposited at base of post, for cor. of secs. 16, 17, 20 and 21, with brass cap marked

T4S R2E	
S 17	S 16
S 20	S 21
1933	

dig pits

Resurvey of a Portion of the Subdivision of
T.4 S., R.2 E.

Chains	18 x 18 x 12 ins., one in each sec. 3 ft. from cor. Land, level desert. Soil, sandy and gravelly, 1st. rate. Timber, mesquite and ironwood. Undergrowth, greasewood, sagebrush and cactus.
	Thence West, on a random line bet. secs. 17 and 20.
40.00	Find no trace of the old $\frac{1}{4}$ sec. cor. Set temp. cor.
80.00	Find no trace of the old cor. of secs. 17, 18, 19 and 20. Set temp. cor.
	Thence from temp. cor. South, on a random line bet. secs. 19 and 20.
37.62	Fall 1.16 chs, W. of the $\frac{1}{4}$ sec. cor. ----- The original Ingalls cor. of secs. 7, 12, 13 and 18 on W. bdy. of Tp. is a mound of earth, with pits. This cor. is well related to other old cors. of the Ingalls survey and is undoubtedly the original cor.
	Thence East, on a random line on N. bdy. of sec. 18, by the Ingalls survey.
9.98	Intersect the line bet. Rs. 1 and 2 E. as reestablished by Thorn in 1916, 71 lks. S. of the closing cor. of secs. 12 and 13 of R.1 E.
39.82	Fall 75 lks. N. of the old $\frac{1}{4}$ sec. cor. of secs. 7 and 18.
79.82	Find no trace of the original cor. of secs. 7, 8, 17 and 18. Set temp. cor. Thence from temp. cor. East, on a random line on N. bdy. of sec. 17.
43.01	Fall 2.11 chs. N. of the Ingalls $\frac{1}{4}$ sec. cor. of secs. 8 and 17, which is a badly decayed piece of mesquite stake squared on one end and with old scribe marks visible, lying on old mound of earth. In center of old mound at point where old stake was lying, and with the old stake alongside, Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a glass bottle, 6 ins. long, 2 ins. wide deposited at base of post, for $\frac{1}{4}$ sec. cor. of sec. 17 only, with brass cap marked $\frac{1}{4}$ S 17 1933 dig pits, 18 x 18 x 12 ins. on line E. and W. of cor. 3 ft. dist. ----- From a point 150 lks. E. of the temp. cor. of secs. 7, 8, 17 and 18, South, on a random line bet. secs. 17 and 18.

Resurvey of a Portion of the Subdivision of
T.4 S., R.2 E.

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Chains 40.00	Find no trace of the old $\frac{1}{4}$ sec. cor. of secs. 17 and 18. Set temp. cor.
81.26	Fall 25 lks. W. of the temp. cor. of secs. 17, 18, 19 and 20. ----- From a point 8.30 chs. E. of the temp. cor. of secs. 7, 8, 17 and 18, North, on a random line bet. secs. 7 and 8.
43.12	Fall 3.33 chs. E. of the original Ingalls $\frac{1}{4}$ sec. cor. of secs. 7 and 8, which is a mound of stone, 2 ft. base, 1 ft. high. From this mound of stone, the $\frac{1}{4}$ sec. cor. of secs. 7 and 8, established by Farmer in 1911, which is an ironpost, 1 in. diam., 12 ins. above ground, and witnessed by a mound of stone W. of cor., bears N.32° 35'E., 6.82 chs. dist. I destroy the mound of stone which was the Ingalls $\frac{1}{4}$ sec. cor. ----- From the temp. cor. of secs. 17, 18, 19 and 20, West, on a random line bet. secs. 18 and 19.
40.00	Find no trace of the old $\frac{1}{4}$ sec. cor. of secs. 18 and 19. Set temp. cor.
71.63	Intersect the line bet. Rs. 1 and 2 E., established by Thorn in 1916.
81.00	Find no trace of the old Ingalls cor. of secs. 13, 18, 19 and 24. Set temp. cor. From the $\frac{1}{4}$ sec. cor. of secs. 19 and 24, of the Ingalls survey, on W. bdy. of T., North, on a random line, bet. secs. 19 and 24 of the Ingalls survey.
34.48	Fall 75 lks. W. of the temp. cor. of secs. 13, 18, 19 and 24.
76.01	Fall 6 lks. E. of the Ingalls $\frac{1}{4}$ sec. cor. of secs. 13 and 18. ----- From the cor. of secs. 16, 17, 20 and 21, N.87°58'W., on a true line bet. secs. 17 and 20. Over level land, through scattering timber and under- growth.
12.70	Line of old fence posts, bears N. and S.
40.65	(Midpoint) Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with 2 brown glass bottles, 8 in. long, 2 $\frac{1}{2}$ ins. diam., deposited at base of post, for $\frac{1}{4}$ sec. cor. with brass cap marked S 17 $\frac{1}{4}$ ----- S 20 1933 dig pits, 18 x 18 x 12 ins. on line E. and W. of cor. 3 ft. dist.

Resurvey of a Portion of the Subdivision of
T.4 S., R.2 E.

Chains											
60.00	Enter dense undergrowth, bears SE. and NW.										
72.30	Leave washed land and dense undergrowth.										
77.23	Western Union Telegraph line, bears N.82°08'E. & S.82°08'W.										
77.80	Fence along Southern Pacific Railway Right of Way, bears N.82°08'E. and S.82°08'W.										
81.30	A point determined by proportional measurement bet. the original $\frac{1}{4}$ sec. cors. of secs. 19 and 20 and 7 and 8, for latitude and bet. the cor. of secs. 16, 17, 20 and 21 and the point midway bet. the $\frac{1}{4}$ sec. cors. of secs. 19 and 24 and 13 and 18 on W. bdy. of T. of the Ingalls survey, for departure.										
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with a brown glass bottle, 8 ins. long, 2 $\frac{1}{2}$ ins. diam., deposited at base of post, for cor. of secs. 17, 18, 19 and 20, with brass cap marked										
	<table style="margin: auto;"> <tr><td colspan="2">T4S R2E</td></tr> <tr><td>S 18</td><td>S 17</td></tr> <tr><td colspan="2">-----</td></tr> <tr><td>S 19</td><td>S 20</td></tr> <tr><td colspan="2">1933</td></tr> </table>	T4S R2E		S 18	S 17	-----		S 19	S 20	1933	
T4S R2E											
S 18	S 17										

S 19	S 20										
1933											
	from which,										
	A mesquite, 10 ins. diam., bears S.54°E., 203 lks. dist. marked T 4 S R 2 E S 20 B T										
	A mesquite, 8 ins. diam., bears S.10°W., 230 lks. dist. marked T 4 S R 2 E S 19 B T										
	Land, level desert.										
	Soil, sandy and gravelly loam, 1st. rate.										
	Timber, mesquite and ironwood.										
	Undergrowth, greasewood, sagebrush and cactus.										
	Thence										
	N.0°39'E., on a true line bet. secs. 17 and 18.										
.89	Center line of S.P.R.R., bears N.82°08'E. and S.82°08'W.										
1.49	Postal telegraph line, bears NE. and SW.										
2.47	Fence along right of way, parallel to tracks.										
2.80	Road, Maricopa to Gila Bend, bears E. and W.										
3.40	Telephone line, bears E. and W. Thence over level land.										
7.30	Drainage ditch, 20 lks. wide, 3 ft. deep, brs. E. and W.										
40.50	(Midpoint) Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with a bottle 8 ins. long, 3 ins. diam., deposited at base of post, for $\frac{1}{4}$ sec. cor. with brass cap marked										
	<table style="margin: auto;"> <tr><td colspan="2">$\frac{1}{4}$</td></tr> <tr><td>S 18</td><td>S 17</td></tr> <tr><td colspan="2">-----</td></tr> <tr><td colspan="2">1933</td></tr> </table>	$\frac{1}{4}$		S 18	S 17	-----		1933			
$\frac{1}{4}$											
S 18	S 17										

1933											
	dig pits,										
	18 x 18 x 12 ins. on line N. and S. of cor. 3 ft. dist.										
	From cor. an old mesquite stake 20 ins. long, 2 ins. diam., with one side smoothed, bears S.54°07'E., 5.09 chs. dist. No scribe marks are visible and I am unable										

Resurvey of a Portion of the Subdivision of **BOOK 4077**
T.4 S., R.2 E.

Chains	to identify it as the original $\frac{1}{4}$ sec. cor.						
63.00	Wash, 10 lks. wide, course SE.						
81.00	A point determined by double proportion bet. the $\frac{1}{4}$ sec. cor. of secs. 19 and 20, and the adjacent $\frac{1}{4}$ sec. cors. N., E. and W.						
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. of secs. 17 and 18 only, with brass cap marked						
	<table border="1"> <tr> <td>S 18</td> <td>S 17</td> </tr> <tr> <td>T4S R2E</td> <td></td> </tr> <tr> <td colspan="2">1933</td> </tr> </table>	S 18	S 17	T4S R2E		1933	
S 18	S 17						
T4S R2E							
1933							
	from which:						
	An ironwood, 20 ins. diam., bears S.41°E., 175 lks. dist. marked T 4 S R 2 E S 17 B T						
	An ironwood, 4 ins. diam., bears S.42 $\frac{1}{4}$ °W., 64 lks. dist. marked B T						
	Land, level desert. Soil, sandy and gravelly loam, 1st. rate. Timber, ironwood, mesquite and palo verde. Undergrowth, greasewood, sagebrush and cactus.						
	Thence						
	S.85°21'W., on a true line on N. bdy. of sec. 18.						
	Over level desert land, through scattering timber and undergrowth.						
9.50	(Approximate) Road, bears NE. and SW.						
41.56	The old $\frac{1}{4}$ sec. cor. of secs. 7 and 18, which is a small mound of rocks, gravel and earth. This is undoubtedly the original cor. In center of old mound,						
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. of sec. 18 only, with brass cap marked						
	<table border="1"> <tr> <td>$\frac{1}{4}$ S 18</td> </tr> <tr> <td>1933</td> </tr> </table>	$\frac{1}{4}$ S 18	1933				
$\frac{1}{4}$ S 18							
1933							
	dig pits,						
	18 x 18 x 12 ins. on line E. and W. of cor. 3 ft. dist.						
	Thence						
	N.88°55'W., on a true line on N. bdy. of sec. 18.						
	Continue over level land.						
10.60	Wash, 10 lks. wide, course SE.						
16.40	Wash, 10 lks. wide, course SE.						
29.84	Intersect the line bet. Rs. 1 and 2 E., as reestablished by Thorn in 1916.						
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with a green glass bottle, 8 ins. long, 3 ins. diam., deposited at base of post, for cor. of sec. 18 only, with brass cap marked						
	<table border="1"> <tr> <td>S 18</td> </tr> <tr> <td>R2E</td> </tr> <tr> <td>T4S</td> </tr> <tr> <td>1933</td> </tr> </table>	S 18	R2E	T4S	1933		
S 18							
R2E							
T4S							
1933							

Resurvey of a Portion of the Subdivision of
T.4 S., R.2 E.

Chains

from which
A palo verde, 6 ins. diam., bears S. $52\frac{1}{4}^{\circ}$ E., 188 lks.
dist. marked T 4 S R 2 E S 18 B T

From point of intersection, the closing cor. of secs.
12 and 13, bears North, 90 lks. dist.; an iron post,
2 ins. diam., 6 ins. above ground, marked and witnessed
as described in the official record.

From same point, the $\frac{1}{4}$ sec. cor. on W. bdy. of sec. 18,
bears S. 39.12 chs. dist.; an iron post, 1 in. diam.,
marked and witnessed as described in the official re-
cord.

I destroy the old Ingalls cor. of secs. 7, 12, 13 & 18.

Land, level.
Soil, sandy loam, 1st. rate.
Timber, mesquite, ironwood and palo verde.
Undergrowth, greasewood, sagebrush and cactus.

From the cor. of secs. 17, 18, 19 and 20,
N. $89^{\circ}33'$ W., on a true line bet. secs. 18 and 19.

Over level desert land, through scattering timber and
undergrowth.

6.10 Center line of S.P.R.R., bears N. $82^{\circ}08'$ E. and S. $82^{\circ}08'$ W.

10.25 Postal telegraph line, bears N. $82^{\circ}08'$ E. and S. $82^{\circ}08'$ W.

34.70 Road, Maricopa to Gila Bend, brs. N. $82^{\circ}08'$ E. and S. $82^{\circ}08'$ W.

40.62 (Proportional distance) Set an iron post, 3 ft. long, 1
in. diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. with
brass cap marked

S 18
 $\frac{1}{4}$ ———
S 19
1933

dig pits,
18 x 18 x 12 ins. on line E. and W. of cor. 3 ft. dist.

52.25 Section hands quarters, bears S. 5 chs. dist.

54.25 Enid. section house, bears S. 6 chs. dist.

70.38 Intersect the E. bdy. of sec. 13, T.4 S., R.1 E.,
as established by Thorn in 1916.
Set an iron post, 3 ft. long, 3 ins. diam., 30 ins. in
the ground for cor. of secs. 18 and 19 only, with brass
cap marked

T4S
S 18
———
S 19
R2E

1933

dig pits,
18 x 18 x 12 ins. one in each sec. NE. and SE. of cor.
3 ft. dist.

From point of intersection, the closing cor. of secs.
13 and 24, of R.1 E., bears S. 1.49 chs. dist.; an iron
post, 2 ins. diam., 12 ins. above ground, marked and
witnessed as described in the official record.

From same point, the old cor. of secs. 18 and 19, set
by Thorn in 1916, bears N. 3.22 chs. dist.; an iron post
3 ins. diam., 10 ins. above ground, marked and witnessed
as described in the official record. I remove this cor.

Resurvey of a Portion of the Subdivision of
T.4 S., R.2 E.

Chains

Land, level desert.
Soil, sandy and gravelly loam, 1st. rate.
Timber, mesquite and ironwood.
Undergrowth, greasewood, sagebrush and cactus.

From the $\frac{1}{4}$ sec. cor. of secs. 17 and 18,
S.88°36'W., on a random line, through section 18.

81.06 Fall $2\frac{1}{2}$ lks. S. of the original Ingalls $\frac{1}{4}$ sec. cor. of
secs. 13 and 18, which is a mound of earth, 3 ft. base,
1 ft. high. This cor. is well related to other old cors.
of the original survey and also is in agreement with
certain topographic features given in the official re-
cord. It is undoubtedly the original $\frac{1}{4}$ sec. cor. I de-
stroy all evidence of this cor.

I return to the $\frac{1}{4}$ sec. cor. of secs. 17 and 18,

Thence

S.88°37'W., on a true line, in sec. 18.

Over level land, through scattering timber and undergrowth.

23.50 Wash, 6 lks. wide, course S.

32.25 Road, bears N.45°E. and S.45°W.

32.70 Wash, 10 lks. wide, course SE.

37.50 Wash, 15 lks. wide, course S.

45.00 Asc. 100 ft. over gradual SE. slope.

62.70 Spur, slopes SE. Desc. 100 ft. over SW. slope.

70.85 Intersect the E. bdy. of sec. 13, T.4 S., R.1 E.,
as established by Thorn in 1916.

Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
ground, with a stone 6x4x2 ins. marked cross (+) depos-
ited at base of post, and supported in a mound of stone
to top for $\frac{1}{4}$ sec. cor. of sec. 18 only, with brass cap
marked

$\frac{1}{4}$

| S 18

1933

From this point, the old $\frac{1}{4}$ sec. cor. of sec. 18, set by
Thorn in 1916, bears North, 4.99 chs. dist. I remove
this old cor.

From same point, the cor. of secs. 18 and 19, bears
South, 38.23 chs. dist.

Land, level and rolling.
Soil, sandy loam, 1st. rate.
Timber, mesquite and ironwood.
Undergrowth, greasewood, sage and cactus.

From the $\frac{1}{4}$ sec. cor. of secs. 19 and 20,

N.87°45'W., on a random line in sec. 19.

82.98 Fall 28 lks. N. of the old $\frac{1}{4}$ sec. cor. of secs. 19 and
24 of the Ingalls survey, which is an old piece of mes-
quite stake, badly decayed but showing evidence of hav-

Resurvey of a Portion of the Subdivision of
T.4 S., R.2 E.

Chains	<p>ing been squared on one end, lying on mound of earth. I destroy all evidence of this cor.</p> <p>I return to the $\frac{1}{4}$ sec. cor. of secs. 19 and 20,</p> <p>Thence</p> <p>N.87°57'W., on a true line in sec. 19.</p> <p>Over hilly land, through scattering timber and undergrowth, along N. slope of Palo Verde mountains.</p> <p>26.20 Wash, 5 lks. wide, course NE. Thence over level land.</p> <p>54.20 Sandy wash, .6 lks. wide, course NE.</p> <p>60.00 Wash, 4 lks. wide, course N.</p> <p>72.89 Intersect the E. bdy. of sec. 24, T.4 S., R.1 E., as established by Thorn in 1916. Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. of sec. 19 only, with brass cap marked</p> <div style="text-align: center;"> $\frac{1}{4}$ S 19 1933 </div> <p>dig pits 18 x 18 x 12 ins. on line N. and S. of cor. 3 ft. dist. for sec. 19</p> <p>From this point, the old $\frac{1}{4}$ sec. cor. bears North, 1.56 chs. dist.; an iron post, 1 in. diam., marked and witnessed as described in the official record. I remove this old cor., which was established by Thorn in 1916.</p> <p>From same point, the cor. of secs. 19 and 30, bears S. 39.44 chs. dist.</p> <p>Land, hilly and level. Soil, rocky, and sandy, 1st. rate on level. Timber, mesquite, ironwood and palo verde. Undergrowth, greasewood, sage and cactus.</p>
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Resurvey and Survey of a Portion of the Subdivision
of T.4 S., R.2 E.

30.30	<p>From the cor. of secs. 17, 18, 19 and 20,</p> <p>S.3°24'E., on a true line bet. secs. 19 and 20.</p> <p>Over slightly rolling land, through scattering timber and undergrowth.</p> <p>Old road, bears E. and W.</p>
38.00	Asc. over N. slope.
40.57	<p>The $\frac{1}{4}$ sec. cor. of secs. 19 and 20, which is a stone 12 x 9 x 8 ins. marked 4 on one side, and set in a small mound of stone. In place of and with the old cor. stone alongside,</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to bed rock, supported in a mound of stone for $\frac{1}{4}$ sec. cor. with brass cap marked</p>

Resurvey and Survey of a Portion of the Subdivision of
T.4 S., R.2 E.

Chains

$\frac{1}{4}$
 S 19 | S 20
 1933

Cor. stands on W. side of a giant cactus, 25 ft. high, 2 ft. diam., marked with an old blaze on E. side.

Thence.

South, on a true line bet. secs. 19 and 20.

Over mountainous land, through scattering timber and undergrowth. Asc. 75 ft. over rocky NE. slope along E. side of spur.

- 5.00 Desc. 30 ft. to
- 13.75 Draw, 10 lks. wide, course NE. Asc. 425 ft. over steep NE. slope.
- 32.00 Ridge, bears SE. and NW. Desc. 120 ft. over SW. slope.
- 36.70 Head of canyon, course SW. Asc. 40 ft. to
- 42.20 A point 79.92 chs. West of the cor. of secs. 20, 21, 28 and 29.

Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bed rock, with a stone 6 x 5 x 3 ins. marked cross (+) deposited at base of post and supported in a mound of stone to top for cor. of secs. 20 and 29 only with brass cap marked

S 30 | T4S
 | S 20
 | S 29
 | R2E
 1933

Land, mountainous.
Soil, rocky, 4th. rate.
Timber, palo verde.
Undergrowth, greasewood, sage and cactus.

From the cor. of secs. 20, 21, 28 and 29,
West, on a true line bet. secs. 20 and 29.
Over level land, through scattering timber and undergrowth.

- 16.95 Line of old fence posts, bears N. and S. 60 lks. then E.
- 27.15 A well with 18 in. casing, bears N., 1.40 chs. dist.
- 39.96 (Midpoint) Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap marked

$\frac{1}{4}$ S 20
 S 29
 1933

ins. on line E. and W. of cor. 3 ft. dist. dig pits, 18 x 18 x 12

- 40.00 Find no trace of the old $\frac{1}{4}$ sec. cor.
- 60.00 Asc. 420 ft. over rocky NE. slope.
- 75.10 Ridge, bears SE. and NW.

Resurvey and Survey of a Portion of the Subdivision of
T.4 S., R.2 E.

Chains 79.92	<p>The cor. of secs. 20 and 29.</p> <p>Land, E. half, level; W. half, hilly. Soil, E. half, sandy loam, W. half rocky. Timber, palo verde and mesquite. Undergrowth, greasewood, sage and cactus.</p>															
	<p>The old cor. of 19, 24, 25 and 30, on W. bdy. of Tp., of the Ingalls survey, is a mound of earth with outline of pits visible.</p> <p>Thence</p> <p>East, on a random line bet. secs. 19 and 30.</p>															
40.00	<p>Fall 16 lks. S. of the old $\frac{1}{4}$ sec. cor. of secs. 19 and 30.</p> <p>Thence from $\frac{1}{4}$ sec. cor.</p> <p>East, on a random line bet. secs. 19 and 30.</p>															
41.86	<p>Intersect the W. bdy. of sec. 20, 5.50 chs. N. of the cor. of secs. 20 and 29.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bed rock, with a granite stone 8 x 5 x 4 ins. marked cross (+) deposited at base, and supported in a mound of stone for closing cor. of secs. 19 and 30 with brass cap marked</p> <div style="text-align: center;"> <table style="border-collapse: collapse; margin: auto;"> <tr><td></td><td style="text-align: center;">T4S</td><td></td></tr> <tr><td></td><td style="text-align: center;">S 19</td><td></td></tr> <tr><td style="text-align: center;">C C</td><td style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px;">S 30</td><td style="text-align: center;">S 20</td></tr> <tr><td></td><td style="text-align: center;">R2E</td><td></td></tr> <tr><td></td><td style="text-align: center;">1933</td><td></td></tr> </table> </div> <p>Thence</p> <p>West, on a true line bet. secs. 19 and 30.</p> <p>Over mountainous land, through scattering timber and undergrowth. Asc. 105 ft. over broken S. slope.</p>		T4S			S 19		C C	S 30	S 20		R2E			1933	
	T4S															
	S 19															
C C	S 30	S 20														
	R2E															
	1933															
7.20	Spur, slopes SW. Desc. 390 ft. over steep NW. slope.															
20.00	Foot of steep descent.															
33.65	<p>A point which by calculation is due north of the $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 31.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. of sec. 30 only, with brass cap marked</p> <div style="text-align: center;"> <table style="border-collapse: collapse; margin: auto;"> <tr><td></td><td style="text-align: center;">$\frac{1}{4}$ S 30</td><td></td></tr> <tr><td></td><td style="text-align: center;">1933</td><td></td></tr> </table> <p style="text-align: right; margin-right: 50px;">from which</p> </div> <p>An ironwood, 12 ins. diam., bears S. $83\frac{1}{2}^{\circ}$ E., 35 lks. dist. marked $\frac{1}{4}$ S 30 B T</p> <p>An ironwood, 10 ins. diam., bears S. $4\frac{1}{2}^{\circ}$ W., 170 lks. dist. marked $\frac{1}{4}$ S 30 B T</p>		$\frac{1}{4}$ S 30			1933										
	$\frac{1}{4}$ S 30															
	1933															
41.86	<p>The old $\frac{1}{4}$ sec. cor. of secs. 19 and 30, which is a badly decayed piece of mesquite stake, in mound of earth. This is undoubtedly the original cor. In center of mound alongside old stake,</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. of sec. 19 only, with brass cap</p>															

Resurvey and Survey of a Portion of the Subdivision of
T.4 S., R.2 E.

	<p>Chains marked</p> <p style="text-align: center;"><u>1/4 S 19</u></p> <p style="text-align: center;">1933</p> <p>12 ins. on line E. and W. of cor. 3 ft. dist. dig pits 18 x 18 x</p> <p>Thence</p> <p>S.89°46'W., on a true line bet. secs. 19 and 30.</p> <p>Over level land.</p>
30.92	<p>Intersect the E. bdy. of sec. 24, T.4 S., R.1 E., as established by Thorn in 1916.</p> <p>Set an iron post, 3 ft. long, 3 ins. diam., 30 ins. in the ground for cor. of secs. 19 and 30 only, with brass cap marked.</p> <p style="text-align: center;">T4S S 19 S 30 R2E</p> <p style="text-align: center;">1933</p> <p>ins. one in each sec. NE. and SE. of cor. 3 ft. dist. dig pits, 18 x 18 x 12</p> <p>The old cor. of secs. 19 and 30, set by Thorn in 1916, bears N. 1.00 ch. dist.; an iron post, 3 ins. diam., 8 ins. above ground marked and witnessed as described in the official record. I remove this cor.</p> <p>The closing cor. of secs. 24 and 25, of R.1 E., bears South, 3.70 chs. dist.; an iron post, marked and witnessed as described in the official record.</p> <p>I obliterate the old Ingalls cor. of secs. 19, 24, 25 and 30.</p> <p>Land, mountainous and level. Soil, rocky on E. portion, sandy loam on W. portion. Timber, palo verde, ironwood and mesquite. Undergrowth, greasewood, sage and cactus.</p>
20.00 40.00 74.36 80.13 7.60 30.00	<p>From the cor. of secs. 28, 29, 32 and 33,</p> <p>West, on a random line on S. bdy. of sec. 29.</p> <p>Find no trace of old cor.</p> <p>Set temp. 1/4 sec. cor.</p> <p>A point due north of the cor. of secs. 31 and 32, on S. bdy. of Tp.</p> <p>A point due south of the cor. of secs. 20 and 29.</p> <p>I return to the cor. of secs. 28, 29, 32 and 33,</p> <p>Thence</p> <p>West, on a true line on S. bdy. of sec. 29.</p> <p>Over level desert land, through scattering timber and undergrowth.</p> <p>Wash, 15 lks. wide, course NE.</p> <p>Leave level land. Asc. 30 ft. over NE. slope to</p>

Resurvey and Survey of a Portion of the Subdivision of
T.4 S., R.2 E.

Chains
34.78

A point N. of the $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 32,

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bed rock, deposit a stone 5 x 5 x 4 ins. marked cross (+) at base of post and raise a mound of stone around post for $\frac{1}{4}$ sec. cor. of sec. 32 only, with brass cap marked

$\frac{1}{4}$ S 32
1933

40.06 Continue ascent over NE. slope 120 ft. to

(Midpoint of S. bdy. of sec. 29) Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to bed rock, deposit a stone 10 x 6 x 5 ins. marked cross (+) at base of post, and raise a mound of stone around post to top for $\frac{1}{4}$ sec. cor. of sec. 29 only, with brass cap mkd.

$\frac{1}{4}$ S 29

1933

Continue ascent over NE. slope 250 ft. to

52.00 Ridge, bears SE. and NW. Desc. 220 ft. over broken NW. slope.

59.60 Along top of small spur.

71.85 Draw, 30 lks. wide, course SW. Asc. SE. slope.

80.13 Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to bed rock, deposit a granite stone, 12 x 6 x 5 ins. marked cross (+) at base, and raise a mound of stone around post, for cor. of sec. 29 only, with brass cap marked.

T4S
R2E
S 31 | S 29

1933

Land, E. half, level; W. half, mountainous.
Soil, E. half, sandy loam; W. half, rocky.
Timber, palo verde, ironwood and mesquite.
Undergrowth, greasewood, sage and cactus.

The cor. of secs. 31 and 32 on S. bdy. of Tp. is an iron post, 2 ins. diam., 10 ins. above ground, marked and witnessed as described in the official record.

Thence

North, on a true line bet. secs. 31 and 32.

Over nearly level land, through scattering timber and undergrowth.

32.00 Wash, 50 lks. wide, course SW.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap marked

$\frac{1}{4}$
S 31 | S 32
1933

Resurvey and Survey of a Portion of the Subdivision of
T.4 S., R.2 E.

Chains	<p>Raise a mound of stone, 3 ft. base, 2 ft. high W. of cor.</p> <p>The old $\frac{1}{4}$ sec. cor. bears S.81°30'W., 9.30 chs. dist.; an old ironwood stake with scribe and ax marks visible. I obliterate this old cor.</p>												
62.10	Draw, 10 lks. wide, course W.												
70.80	Draw, 20 lks. wide, course SW. Asc. gradual SW. slope.												
74.60	Intersect the S. bdy. of sec. 29, 5.77 chs. E. of the cor. of sec. 29.												
	<p>Set an iron post, 3 ft. long, $\frac{1}{2}$ in. diam., 6 ins. in the ground to bed rock, deposit a granite stone 6 x 5 x 5 ins. at base of post and raise a mound of stone around post, for closing cor. of secs. 31 and 32, with brass cap marked</p> <div style="text-align: center;"> <table border="0"> <tr><td colspan="2">S 29</td></tr> <tr><td colspan="2"><hr/></td></tr> <tr><td>C</td><td>C</td></tr> <tr><td>S 31</td><td>S 32</td></tr> <tr><td>T4S</td><td>R2E</td></tr> <tr><td colspan="2">1933</td></tr> </table> </div> <p>Land, rolling. Soil, rocky and gravelly, 2nd. and 3rd. rates. Timber, ironwood, palo verde and mesquite. Undergrowth, greasewood, sage, and cactus.</p>	S 29		<hr/>		C	C	S 31	S 32	T4S	R2E	1933	
S 29													
<hr/>													
C	C												
S 31	S 32												
T4S	R2E												
1933													
	<p>The cor. of secs. 30 and 31 on W. bdy. of Tp., set by Thorn in 1916, is an iron post, 3 ins. diam., 8 ins. above ground, marked and witnessed as described in the official record.</p> <p>Thence</p> <p>East, on a true line bet. secs. 30 and 31.</p> <p>Over level land, through scattering timber and undergrowth.</p>												
29.90	Fall 77 lks. N. of the old $\frac{1}{4}$ sec. cor. of secs. 30 and 31 which is a badly decayed mesquite stake. I destroy this old cor.												
39.13	<p>A point north of the $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 31, by calculation.</p> <p>Set an iron post, 3 ft. long, $\frac{1}{2}$ in. diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap marked</p> <div style="text-align: center;"> <table border="0"> <tr><td colspan="2">S 30</td></tr> <tr><td colspan="2"><hr/></td></tr> <tr><td>$\frac{1}{4}$</td><td>S 31</td></tr> <tr><td colspan="2">1933</td></tr> </table> </div> <p>12 ins. on line E. and W. of cor. dig pits, 18 x 18 x 3 ft. dist.</p> <p>Asc. over gradual SW. slope.</p>	S 30		<hr/>		$\frac{1}{4}$	S 31	1933					
S 30													
<hr/>													
$\frac{1}{4}$	S 31												
1933													
54.90	Find no trace of the old cor.												
68.20	Draw, 20 lks. wide, course SW. Asc. 25 ft. over NW. slope.												
72.86	Intersect the W. bdy. of sec. 29, 6.22 chs. N. of the cor. of sec. 29.												
	<p>Set an iron post, 3 ft. long, $\frac{1}{2}$ in. diam., 12 ins. in the ground to bed rock, deposit a granite stone, 10 x 6 x 3</p>												

Resurvey and Survey of a Portion of the Subdivision of
T.4 S., R.2 E.

Chains

ins. marked cross (+) at base of post, and raise a mound of stone around post, for closing cor. of secs. 30 and 31, with brass cap marked

T4S
S 30
CC ——— S 29
S 31
R2E
1933

Land, level and rolling.
Soil, sandy and gravelly, rocky on E. portion.
Timber, ironwood, mesquite and palo verde.
Undergrowth; greasewood; sage and cactus.

Survey of a Portion of the Subdivision of
T.4 S., R.2 E.

From the cor. of secs. 20 and 29,

South, on W. bdy. of sec. 29.

Over mountainous land, through scattering timber and undergrowth. Asc. NW. slope.

1.30 Desc. 130 ft. over SW. slope.

10.25 Head of canyon, course NW. Asc. 220 ft. over steep NW. slope.

18.00 Spur, slopes SW. Desc. 314 ft. over SE. slope to

33.76 (40.00 chs. N. of closing cor. of secs. 30 and 31)

Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bed rock, deposit a granite stone, 10 x 6 x 5 ins. marked cross (+) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor. of sec. 30 only, with brass cap marked

$\frac{1}{4}$
S 30
1933

37.30 Draw, 20 lks. wide, course SW.

39.99 (Midpoint of W. bdy. of sec. 29)

Cut a 4 in. cross (+) on solid bed rock and over same, set an iron post, 3 ft. long, 1 in. diam., supported in a mound of stone to top of post, for $\frac{1}{4}$ sec. cor. of sec. 29 only, with brass cap marked

$\frac{1}{4}$
S 29
1933

42.30 Rocky draw, 20 lks. wide, course NW. Asc. 170 ft. over broken NW. slope.

63.00 Spur, slopes SW. Desc. 190 ft. over S. slope.

71.40 Draw, 30 lks. wide, course W. Asc. NW. slope.

Survey of a Portion of the Subdivision of
T.4 S., R.2 E.

BOOK 4077

Chains	
73.76	The closing cor. of secs. 30 and 31.
79.98	The cor. of sec. 29. Land, mountainous. Soil, rocky, 4th. rate. Timber, palo verde, mesquite and ironwood. Undergrowth, greasewood, sage and cactus.
	From the cor. of secs. 28, 29, 32 and 33, S.3°39'E., on a random line bet. secs. 32 and 33.
35.70	Set temp. $\frac{1}{4}$ sec. cor.
75.56	Intersect the cor. of secs. 32 and 33, on S. bdy. of Tp. which is an iron post, 2 ins. diam., marked and witness- ed as described in the official record. Thence N.3°39'W., on a true line bet. secs. 32 and 33. Over mountainous land, through scattering timber and undergrowth. Desc. 366 ft. over broken NE. slope.
15.86	Gulch, 10 lks. wide, course E.
17.86	Gulch, 15 lks. wide, course NE. Desc. NE. slope.
22.00	Foot of descent. Thence over nearly level land.
37.78	(Midpoint) Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground for $\frac{1}{4}$ sec. cor. of sec. 33 only, with brass cap marked $\frac{1}{4}$ S 33 1933 raise a mound of stone, 3 ft. base, 2 ft. high E. of cor.
40.08	(40.00 chs. in latitude) Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground for $\frac{1}{4}$ sec. cor. of sec. 32 only, with brass cap marked $\frac{1}{4}$ S 32 1933 raise a mound of stone, 3 ft. base, 2 ft. high W. of cor.
52.46	Sandy wash, 10 lks. wide, course NE.
58.75	Enter clearing, bears E. and W.
67.50	Leave clearing, bears NE. and SW.
74.30	Wash, 15 lks. wide, course NE.
75.56	The cor. of secs. 28, 29, 32 and 33. Land, S. 22 chs. mountainous, balance, level. Soil, S. 22 chs. rocky, balance, sandy loam. Timber, mesquite, ironwood and palo verde. Undergrowth, greasewood, sage and cactus.

Retracement of a Portion of the Ingalls Survey
of the W. bdy. of T. 4 S., R. 2 E.

- | | |
|--------|---|
| Chains | The SW. cor. of T.4 S., R.2 E., is an iron post, 3 ins. diam., 8 ins. above ground, properly marked for 2 Tps. and witnessed by pits, N., S., and E. of cor. This cor. was set by Thorn in 1916. |
| | Thence |
| | West, on a blank line in sec. 36. |
| 8.72 | Fall 1.20 chs. N. of the old Ingalls Tp. cor., which is a badly decayed mesquite stake, squared on one end, with scribe marks visible but illegible, set in barely discernable mound of earth. No trace of the old pits is visible, but it is undoubtedly the original cor. I obliterate this old cor. and from point where it stood, |
| | North, on a blank line, in sec. 36. |
| 39.37 | Fall 23 lks. W. of the Ingalls $\frac{1}{4}$ sec. cor. of secs. 31 & 36, which is a faint mound of earth and traces of pits. I obliterate this old cor. |
| 80.00 | Find no trace of the Ingalls cor. of secs. 25, 30, 31 and 36. |
| 120.00 | Find no trace of the old Ingalls $\frac{1}{4}$ sec. cor. bet. secs. 25 and 30. |
| | Other $\frac{1}{4}$ sec. and sec. cors. on this line having been obliterated as hereinbefore described. I discontinue the line. |

Obliteration of a Portion of the Ingalls Survey
of the S. bdy. of T.4 S., R. 2 E.

From the cor. of secs. 31 and 32 on S. bdy. of Tp.,
West, on a blank line in sec. 31.

- | | |
|------|---|
| 9.32 | Fall 1.10 chs. N. of a badly decayed mesquite stake, with indication of ax marks and trace of mound of earth. This is undoubtedly the original Ingalls cor. of secs. 5, 6, 31 and 32. I further obliterate the remaining evidence of cor. |
|------|---|

Portion of the Subdivisions of T. 4 S., R. 2 E.

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FINAL TEST OF SOLAR ATTACHMENT.

March 7: At the azimuth station, hereinbefore described, at 9h 00m a.m., app.t., I set off $33^{\circ} 02'$ N. on the lat. arc; $5^{\circ} 15'$ S. on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At 3h 00m p.m., app.t., I set off $33^{\circ} 02'$ N. on the lat. arc; $5^{\circ} 09'$ S. on the decl. arc; and repeat the solar test; the line of sight agrees with the meridian established by Polaris observation.

March 7, 1933.

GENERAL DESCRIPTION.

That portion of T. 4 S., R. 2 E., described in the foregoing field notes, rates from level to mountainous lands and from a light sandy soil to barren rock.

The mountains, a narrow range, enters the township near the SE. cor. of sec. 31 and extends in a northerly direction ending in sec. 19.

The ground cover consists of mesquite, palo verde, ironwood, greasewood, sage brush and the usual desert growth.

No settlers were living within the surveyed area at the time of survey. However, in sec. 29 there is a very good frame house, evidences of a deep well, pumping plant and irrigation ditches, also evidences of an abandoned deep well in the SE $\frac{1}{4}$ of sec. 20 near the line between secs. 20 and 29.

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BOOK 4077

CERTIFICATE OF UNITED STATES SURVEYOR

I, Francis E. Joy, U.S. Cadastral Engineer, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Arizona bearing date of the 2nd. day of September, 1932, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, dependently and independently resurveyed and surveyed a portion of the subdivisional lines of Township 4 South, Range 2 East,

of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of **resurvey and** said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such **resurvey and survey**.

Francis E. Joy
 U.S. Cadastral Engineer.
 Glendale, California,
 April 28, 1934.

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,
 Denver, Colorado, July 20, 1934.

The foregoing field notes of the dependent and independent resurvey and survey of a portion of the subdivisional lines of Township 4 South, Range 2 East, of the Gila and Salt River Meridian, in the State of Arizona,

executed by Francis E. Joy, U.S. Cadastral Engineer, under his special instructions dated September 2, 1932, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys **and resurveys** they describe, are hereby approved.

William P. Mason
 U. S. Supervisor of Surveys.

I certify that the foregoing transcript of the field notes of the above-described _____, has been correctly copied from the original notes on file in this office.

U. S. Supervisor of Surveys.